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42671-0800

**IN THE CLAIMS:**

1- 38. (Cancelled)

39. (Previously Presented) A plastic component, comprising:

a transparent synthetic resin substrate having an anterior surface and a posterior surface;

a tie-bond layer formed on said anterior surface and said posterior surface of said synthetic resin substrate; and

a multi-layer surface abrasion resistant coating on the tie-bond layer, the multi-layer surface abrasion resistant coating and tie-bond layer are formed by a single wet coating that is cured to provide at least two layers of the surface abrasion resistant coating having respective different concentrations of colloid particles.

40. (Previously Presented) The plastic component of Claim 39 wherein metal oxide colloid particles are in the single wet coating to form the multi-layer abrasion resistant coating and the tie-bond layer.

41. (Previously Presented) The plastic component of Claim 40, wherein the multi-layer surface abrasion resistant coating has varying amounts of  $Zr(iPv)_2$  and  $SiO_2$  from said anterior substrate surface to an exterior surface of the multi-layer surface abrasion resistant coating.

42. (Previously Presented) The plastic component of Claim 39, wherein the two layers provided in the surface abrasion resistant coating include a first layer on an exterior surface having a colloid particle concentration of approximately 75% by weight.

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43. (Previously Presented) The plastic component of Claim 42, wherein a second layer adjacent the first layer has approximately 10% by weight colloid particle concentration.

44. (Previously Presented) The plastic component of Claim 43, wherein the tie-bond layer has approximately 15% by weight colloid particle concentration.

45. (Previously Presented) The plastic component of Claim 44, wherein the tie-bond layer is a cathodic chemabsorbed colloid particle concentration formed in the single wet coating of a sol gel.

46. (Previously Presented) The plastic component of Claim 45 further has a reflective coating.

47. (Previously Presented) The plastic component of Claim 40, wherein the multi-layer surface abrasion resistant coating has an exterior surface of cathodic colloid particles to provide a hydrophobic coating.

48. (Previously Presented) The plastic component of Claim 40, wherein the multi-layer surface abrasion resistant coating has an exterior surface of anodic colloid particles to provide a hydrophilic coating.

49. (Previously Presented) The plastic component of Claim 40, wherein the multi-layer surface abrasion resistant coating has an exterior surface that is enabled to be one of hydrophobic and hydrophilic depending on an applied pH level to the exterior surface.

50-61. (Cancelled)

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62. (Currently Amended) A plastic component, comprising:  
a transparent synthetic resin substrate having an anterior surface and a posterior surface;  
a tie-bond layer formed on one of said anterior surface and said posterior surface of said synthetic resin substrate; and  
a transparent multi-layer surface abrasion resistant coating on the tie-bond layer, the multi-layer surface abrasion resistant coating and tie-bond layer are formed by a single wet coating that is cured to provide at least two layers of the surface abrasion resistant coating having respective different concentrations of colloid particles including a first layer, on an exterior surface, containing a majority of the colloid particles by weight.

63. (Currently Amended) The plastic component of Claim 62 wherein metal oxide colloid particles and an organosilicon polymer are in the single wet coating to form the multi-layer abrasion resistant coating and the tie-bond layer with the metal oxide colloid particles being approximately 50% by weight of the single wet coating and the transparent synthetic resin substrate includes one of a polymethyl methacrylate resin and a polycarbonate resin.

64. (Currently Amended) The plastic component of Claim 63, wherein the multi-layer surface abrasion resistant coating has varying amounts of  $Zr(IPv)_2$  and  $SiO_2$  from said anterior substrate surface to ~~[[an]]~~ the exterior surface of the multi-layer surface abrasion resistant coating.

65. (Currently Amended) The plastic component of Claim 63, wherein the two layers provided in the surface abrasion resistant coating include ~~[[a]]~~ the first layer on ~~[[an]]~~ the exterior surface having a colloid particle concentration of approximately 75% by weight.

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66. (Previously Presented) The plastic component of Claim 65, wherein a second layer adjacent the first layer has approximately 10% by weight colloid particle concentration.

67. (Previously Presented) The plastic component of Claim 66, wherein the tie-bond layer has approximately 15% by weight colloid particle concentration.

68. (Previously Presented) The plastic component of Claim 67, wherein the tie-bond layer is a cathodic chemabsorbed colloid particle concentration formed in the single wet coating of a sol gel.

69. (Previously Presented) The plastic component of Claim 68 further has a reflective coating.

70. (Previously Presented) The plastic component of Claim 63, wherein the multi-layer surface abrasion resistant coating has an exterior surface of cathodic colloid particles to provide a hydrophobic coating.

71. (Previously Presented) The plastic component of Claim 63, wherein the multi-layer surface abrasion resistant coating has an exterior surface of anodic colloid particles to provide a hydrophilic coating.

72. (Previously Presented) The plastic component of Claim 63, wherein the multi-layer surface abrasion resistant coating has an exterior surface that is enabled to be one of hydrophobic and hydrophilic depending on an applied pH level to the exterior surface.

73. (Currently Amended) The plastic component of Claim 62, wherein the two layers provided in the multi-layer surface resistant coating includes ~~an exterior surface~~ the first layer

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having a zirconia/silica colloid particle concentration of approximately 75% by weight, and a second layer adjacent the first layer having a zirconia/silica colloid particle concentration of approximately 10% by weight and the tie-bond layer formed on the synthetic resin substrate having a zirconia/silica colloid particle concentration of approximately 15% by weight.

74. (Previously Presented) The plastic component of Claim 73, wherein a reflective coating is provided on the other of said anterior surface and said posterior surface of said synthetic resin substrate to provide a mirror.

75. (Previously Presented) The plastic component of Claim 73, wherein one of a hydrophobic and hydrophilic surface is provided on the surface of the first layer.

76. (Previously Presented) The plastic component of Claim 73, wherein a cathodic chemabsorbed zirconia/silica layer is formed between the tie-bond layer and surface of the synthetic resin substrate.